

OCT 30 1984

NOV 05 1984

Ref: 8WM-DW

Mr. Alvin W. Simpson  
Manager of Operations  
Murphy Oil USA Incorporated  
200 Peach Street  
El Dorado, Arkansas 71730

Re: Underground Injection Control (UIC)  
Permit Application for: East Poplar  
Field wells no.'s 1-D, 5-D, 8-D,  
29-D, 59-D 80-D  
EPA ID #'s: MTS21PE-0021, (5-D),  
MTS21PE-0022 (1-D), MTS21PE-0023 (8-D)  
MTS21PE-0024 (29-D), MTS21PE-0025 (59-D)  
MTS21PE-0026 (80-D)

Dear Mr. Simpson:

On August 29, 1984, my UIC permit staff received your applications for salt water disposal into the above referenced wells. All of these wells are located on Indian lands in the East Poplar Unit near Poplar, Montana. For this reason, both EPA and the Bureau of Land Management (BLM) have permitting, inspection, and plugging requirements for Class II wells in Montana. Therefore, once these wells are permitted, each permit will have a notice attached that informs you that an EPA approval does not constitute BLM approval for subsurface injection.

Review of your applications has made apparent a number of deficiencies and/or missing parts. The applications cannot be declared complete nor the permit processing continued until the below listed information is supplied. Please note that certain deficiencies are common to all applications and listed under "Common Deficiencies". Deficiencies that are specific to an individual application are listed under "Individual Well Application Deficiencies" by well number.

#### COMMON DEFICIENCIES

##### 1. PERMIT FORM 4 UIC: Please note the following:

Item V: SIC Codes - the appropriate Standard Industrial Classification (SIC) code for your operations are 1311. We have added it to your application forms. Add other appropriate SIC codes for each well on the application forms.

Item XI: Attachments - the listing of the attachments is missing.

8WM-DW  
R R Long  
10/25/84

BAC  
Hobson  
10-29-84

8WM-DW  
PAC  
10/26/84

8WM-DW  
Frieble  
10/30/84



Item XII C: The person who signs the permit applications must be either: 1) A principal executive officer of at least the level of a Vice-President or; 2) A duly authorized representative so identified in writing by a Vice-President or higher. See 40 CFR Section 144.32 (a) and (b).

- A. ATTACHMENT "A" AREA OF REVIEW METHODS: Additional information is needed. The regulations (144.31(e)(7)) require a map showing each injection well and other wells, springs, and other surface water bodies, and drinking water wells. The area depicted on the map is to extend 1 mile beyond the injection well.
- B. ATTACHMENT "E" NAME AND DEPTH OF USDW's: There is an uncertainty that all USDW's have been listed. Refer to 144.3 for the definition of a USDW. Indicate reasons for not including water producing zones encountered in drilling. See 146.24(a)(6). Murphy Oil Incorporated states that the lower most USDW is an unnamed Tertiary Sand. The Judith River Formation is also a USDW (TDS levels are less than 10,000 parts per million) and is protected under the WIC regulations. For those wells not injecting into the Judith River, what is the depth from surface to this formation?
- C. ATTACHMENT "G" GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES: The values for the fracture pressure of the upper confining zone, the injection zone, and the lower confining zone need to be supplied. This information is required in 146.24(a)(5) and on Form 4. Indicate how the fracture pressure was determined.
- D. ATTACHMENT "H" OPERATING DATA: The average and maximum daily injection rate of the fluids need to be furnished (i.e. gallons/hr/day). Is there a stimulation procedure proposed (146.24(b)(2))? What are the proposed contingency plans to cope with well failures (146.24(b)(4))? Provide a map illustrating location or provide Township, Range and Section of all wells for which a water analysis is provided. Do each of the injection wells receive water from all indicated wells on the water analysis reports? Do any of the injection wells receive fluids from formations or wells other than those indicated on the water analysis reports?
- E. ATTACHMENT "M" CONSTRUCTION DETAILS: This attachment is missing. It is necessary to have all construction details of the injection well.
- F. ATTACHMENT "Q" PLUGGING AND ABANDONMENT PLAN: This attachment has not been signed or dated. "Type of Authorization" has not been indicated. "Method of Emplacement of Cement Plugs" has not been indicated. The type of cement needs to be indicated. The estimated cost to plug the wells has not been provided.



- G. ATTACHMENT "R" NECESSARY RESOURCES: A Surety Bond, Letter of Credit, or proof of a Trust Fund for the total cost of plugging the well are among the acceptable demonstrations of financial responsibility as required by 40 CFR Section 144.52(a)(7). You have the option of submitting a Financial Statement in lieu of a financial instrument. However, the use of a Financial Statement is subject to EPA approval. Does Murphy Oil have a bond with the Board of Oil and Gas Conservation of the State of Montana? If so, please submit a copy of it with your corrections to the injection well applications.
- H. ATTACHMENT "T" EXISTING EPA PERMITS: This has not been completed. Indicate whether there are existing permits under RCRA, NPDES, or Prevention of Significant Deterioration (PSD) program under the Clean Air Act for each well site or the unit.
- I. ATTACHMENT "U" DESCRIPTION OF BUSINESS: In order to satisfy 144.31(e)(1) and 144.31(e)(8) and this attachment, submit a one to two paragraph description of the activities at each injection operation. Identify the wells that produce the fluid; how the fluid arrives at the injection well; whether the produced fluids that have differing TDS values are mixed and the likely resulting final TDS value for each injection well; what the likely hours of operation are i.e. 16 hrs/day etc.

AREA OF NOTIFICATION: You are required to give separate notice of intent to apply for a permit to each owner or tenant of the land within one-half mile of the subject well. See 40 CFR Section 147.1355(b) and (c). When you have given notice, please submit a list of the names and addresses of the owners of record to whom you have sent notice and how notice was given to this office. See 40 CFR Section 144.31(e)(9).

OTHER PERMITS: No statement of permits from state or federal agencies was included, whether permits were issued or not. See 40 CFR Section 144.31(e)(6). Of particular interest would be any permits issued by BLM, BIA, or the Board of Oil and Gas Conservation of the State of Montana.

The attachments for "Completion Report for Brine Disposal, Hydrocarbon Storage, or Enhanced Recovery Well" are missing. This form was not signed or dated for each application. Please include all well logs and a Cement Bond Log for each well.

#### INDIVIDUAL WELL APPLICATION DEFICIENCIES

##### EPU 1-D (MTS 21PE-0022)

- 1) In Attachment A, provide a schematic of EPU #78, which is a plugged well. Show locations of plugs, type of cement, material used between plugs, type, depth and age of casing remaining in hole. Also, provide any forms submitted to the Montana Board of Oil and Gas Conservation and the Bureau of Land Management. Please indicate depth of formation tops in the above schematic. Was each plug tagged in EPU #78? Are there drinking water wells within 1/4 mile radius?



What is  
2025  
In Attachment G, is the Basal Colorado Silt present above the Dakota Formation?

- 3) In Attachment Q, there is an asterisked number, but there is no indication as to what the asterisk means. Explain the proposed cementing data for Plug #1 and #2. Size of hole indicated on the form does not appear to account for the annulus space between tubing and bore hole. The distance calculated to the top of plug uses the 6.366" diameter hole. What is the justification for a 9 foot plug at 3,100 feet? Where is Plug #2 located?
- 4) On the "Completion Report for Brine Disposal...", EPA Form 7520-10, explain the values given for Casing/Tubing Depth and Cement Sacks and Hole Depth.
- 5) On Form 4, Section IX has a typo in the Township description. The township is given as 29W.

EPU 5-D (MTS 21PE-0021)

- 1) In Attachment E, there is no depth to bottom provided for the unknown named Tertiary formation.
- 2) In Attachment G, is the Basal Colorado Silt present above the Dakota Formation?
- 3) In Attachment Q, "Method of Emplacement of Cement Plugs" has not been completed. There is an asterisk by a number, however there is no indication as to what the asterisk means. Explain the "Cementing To Plug and Abandon Data", contained on the form. The calculated top of Plug #1 does not calculate to the depth given for the amount of cement slurry. What is the justification for a 19 foot plug at a depth of 3150 feet? Where is Plug #2 located? Why are 6 feet of the tubing and casing being removed?

EPU 8-D (MTS 21 PE-0023)

- 1) Attachment Q, needs additional information and/or explanation. "Method of Emplacement of Cement Plugs", has not been indicated.
- 2) Explain putting 1 foot of 13 3/8" casing into the well and removing 6 feet of the 9 5/8" and 5 1/2" casings?
- 3) In "Cementing to Plug and Abandon Data", explain the single asterisk for different points of reference on the form. Also, explain the top of plug calculation. What is the depth to bottom of Plug #2 and Plug #3?



- 4) Supply the Completion Report for this injection well when it was converted to inject into the Judith River Formation. The well was recompleted 1/28/78 into the Judith River.

EPU #29-D (MTS 21PE-0024)

The injection zone for this well is the Judith River at a depth of 853 to 887 feet from ground surface. The well is 5,875 feet deep. Is the well plugged back? To what depth? How were the perforations isolated? Is there tubing and a packer, if so where are they set? If the well is not plugged back it will need to have plugs at least at the old production zone and cement up to 50 feet from the top of the Glaget Shale. A Cement Bond Log will be required as will a Mechanical Integrity Test prior to any effective permit.

EPU #80-D (MTS 21PE-0026)

- 1)- The location plotted on the plat on form 7520-14 is plotted incorrectly in relation to the location given. The location given on that form is not the same as the location on the form 4, please correct. There was no location given on form 7520-10, please complete. All locations given on the forms are different, please correct.

As soon as we receive all the information listed above, we will be able to proceed with processing the permits. Please submit the required information to the Denver Regional office as soon as possible, but no later than November 26th. If you have any questions regarding this letter, or on the status of your application, please contact Angus Campbell at (303) 844-4579 or Mike Liuzzi at (303) 844-2731.

Sincerely,

Max Dodson, Director  
Water Management Division

LIUZZI/9/24/84/8093P/pages 1-6/draft  
editing/10/22/84/1st final print/craig  
editing/10/24/84/2nd final print/craig



Permit Application & Attachments  
(P&A Approval Request)

Correspondence to EPA

Well Located: 28 029N 051E  
FORT PECK  
POPLAR EAST, ROOSEVELT County  
29-D  
MT00024  
MT2024-0024



Received in DWB  
3/19/85

# UNITED Insurance AGENCY

116 WEST ELM • (501) 863-4123 • P.O. BOX 1604 • EL DORADO, ARK. 71730 - 1604

March 15, 1985

Mr. Max H. Dodson  
Director-Water Management Division  
United States Environmental Protection Agency  
Region VIII  
1860 Lincoln Street  
Denver, Colorado 80295

Murphy Oil USA, Inc.  
Bond No. 39 0130 10197 85 2

Dear Mr. Dodson:

Enclosed is the above captioned bond with  
power of attorney attached. Also enclosed  
is trust agreement with power of attorney.

Very truly yours,

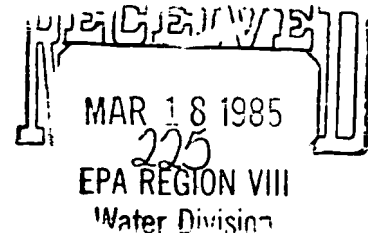
United Insurance Agency, Inc.

*Robert R. Brown, Jr.*

Robert R. Brown, Jr.

Enclosures:

CC: Mr. M. O. Colvin  
Murphy Oil USA, Inc.  
200 Peach Street  
El Dorado, Arkansas 71730





STANDBY TRUST AGREEMENT

U.S. Environmental Protection Agency  
Underground Injection Control  
Financial Responsibility Requirement

TRUST AGREEMENT, the "Agreement," entered into as of March 15, 1985  
(date)

by and between Murphy Oil USA, Inc.  
(name of owner or operator)

a Delaware Corporation, the "Grantor," and  
(name of state) (corporation, partnership,  
association, or proprietorship)

United States Fidelity and Guaranty Company, (X) incorporated in the State  
(name of corporate trustee)

of Maryland or ( ) a national bank, the "Trustee."

WHEREAS, the United States Environmental Protection Agency, "EPA," an agency of the United States Government, has established certain regulations applicable to the Grantor, requiring that an owner or operator of an injection well shall provide assurance that funds will be available when needed for plugging and abandonment of the injection well, and

WHEREAS, the Grantor has elected to obtain (X) a surety bond ( ) a letter of credit and establish a standby trust to provide all or part of such financial assurance for the facility(ies) identified herein, and

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this Agreement, and the Trustee is willing to act as trustee.

NOW, THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

(a) The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

(c) "Facility" or "activity" means any underground injection well or any other facility or activity that is subject to regulation under the Underground Injection Control Program.

Section 2. Identification of Facilities and Cost Estimates. This Agreement pertains to the facilities and cost estimates identified in Schedule A (attached). (Schedule A lists, for each facility, the EPA identification number, name, address, and the current plugging and abandonment cost estimate, or portions thereof, for which financial assurance is demonstrated.)

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a trust fund, the "Fund," for the benefit of EPA. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by EPA.

Section 4. Payment for Plugging and Abandonment. The Trustee shall make payments from the Fund as the EPA Regional Administrator shall direct, in writing, to provide for the payment of the costs of plugging and abandonment of the injection wells covered by this Agreement. The Trustee shall reimburse the Grantor or other persons as specified by the EPA Regional Administrator from the Fund for plugging and abandonment expenditures in such amounts as the EPA Regional Administrator shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as the EPA Regional Administrator specifies in writing. Upon refund, such funds shall no longer constitute part of the Fund as defined herein.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing, which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims, except that:



(a) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 USC 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the Federal or a State government;

(b) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State government; and

(c) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in the fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

(e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee, shall be paid from the Fund.

Section 10. Annual Valuation. Commencing after initial funding of the trust, the Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the appropriate EPA Regional Administrator a statement confirming the value of the Trust. Any securities in the Fund shall be valued at the market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the EPA Regional Administrator shall constitute a conclusively binding assent by the Grantor, barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then



constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the EPA Regional Administrator, and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee. All orders, requests, and instruction by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A, or such other designees as the Grantor may designate by amendment to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. All orders, requests, and instructions by the EPA Regional Administrator to the Trustee shall be in writing, signed by the EPA Regional Administrators of the Regions in which the facilities are located, or their designees, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or EPA hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or EPA, except as provided for herein.

Section 15. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the appropriate EPA Regional Administrator, or by the Trustee and the appropriate EPA Regional Administrator if the Grantor ceases to exist.

Section 16. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the EPA Regional Administrator, or by the Trustee and the EPA Regional Administrator if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

Section 17. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the EPA Regional Administrator issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or by the Trust fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 18. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of Arkansas.

Section 19. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

IN WITNESS WHEREOF, the parties below have caused this Agreement to be executed by their respective officers duly authorized and the corporate seals to be hereunto affixed and attested as of the date first above written.

By: 

(Signature of Grantor)

Vice President  
(Title)

Attest: 

Assistant Secretary  
(Title)

(SEAL)

By: 

(Signature of Trustee)

Agent and Attorney-In-Fact  
Residing In El Dorado, Arkansas  
(Title)

Attest: \_\_\_\_\_

\_\_\_\_\_  
(Title)

(SEAL)



CERTIFICATE OF ACKNOWLEDGMENT

FOR

STANDBY TRUST FUND AGREEMENT

STATE OF ARKANSAS

COUNTY OF UNION

On this 15th day of March, 1985, before me personally came Glenn M. Fedderson to me known, who, being by me duly sworn, did depose and say that he resides at 200 Peach Street, El Dorado, Arkansas 71730, that he is Vice President of Murphy Oil USA, Inc., the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to such instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

*La. Frieda De Bruin*  
(Notary Public)

My Commission expires

(Seal)

March 1, 1993

S C H E D U L E   A

Identification of Facilities and Cost Estimates

Schedule A is referenced in the trust agreement dated March 15, 1985 by and between Murphy Oil USA, Inc., the "Grantor," and United States  
(name of owner or operator) (name of  
Fidelity and Guaranty Company, the "Trustee."  
trustee)

EPA identification number	MTS 21 PE-0021
Name of facility	EPU 5-D
Address of facility	P. O. Box 547 Poplar, Montana 59255

Current plugging and abandonment cost estimate	\$25,000.00
Date of estimate	3-12-85

EPA identification number	MTS 21 PE-0022
Name of facility	EPU 1-D
Address of facility	P. O. Box 547 Poplar, Montana 59255

Current plugging and abandonment cost estimate	\$25,000.00
Date of estimate	

EPA identification number	MTS 21 PE-0023
Name of facility	EPU 8-D
Address of facility	P. O. Box 547 Poplar, Montana 59255

Current plugging and abandonment cost estimate	\$25,000.00
Date of estimate	

EPA identification number	MTS 21 PE-0024
Name of facility	EPU 29-D
Address of facility	P. O. Box 547 Poplar, Montana 59255

Current plugging and abandonment cost estimate	\$25,000.00
Date of estimate	



EPA identification number  
Name of facility  
Address of facility

MTS 21 PE-0026  
EPU 80-D  
P. O. Box 547  
Poplar, Montana 59255

Current plugging and  
abandonment cost estimate  
Date of estimate

\$25,000.00

# GENERAL POWER OF ATTORNEY

No. 87314

**Know all Men by these Presents:**

That UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, and having its principal office at the City of Baltimore, in the State of Maryland, does hereby constitute and appoint Robert R. Brown, Jr. and A. J. Johnson

of the City of El Dorado, State of Arkansas  
its true and lawful attorney ~~in and for the State of~~

for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said UNITED STATES FIDELITY AND GUARANTY COMPANY, through us, its Board of Directors, hereby ratifies and confirms all and whatsoever ~~the said~~ either the said Robert R. Brown, Jr. or the said A. J. Johnson

may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said UNITED STATES FIDELITY AND GUARANTY COMPANY has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its Vice-President and Assistant Secretary, this 22nd day of October, A. D. 19 76

UNITED STATES FIDELITY AND GUARANTY COMPANY.

(Signed) By Robert E. DeNike  
Vice-President.

(Signed) Michael B. Casey  
Assistant Secretary.

(SEAL)

STATE OF MARYLAND,  
BALTIMORE CITY.

ss:

On this 22nd day of October, A. D. 19 76 before me personally came Robert E. DeNike, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and Michael B. Casey, Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said that they resided in the City of Baltimore, Maryland; that they, the said Robert E. DeNike and Michael B. Casey were respectively the Vice-President and the Assistant Secretary of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their names thereto by like order as Vice-President and Assistant Secretary, respectively, of the Company. My commission expires the first day in July, A. D. 19.78....

(SEAL) (Signed) Herbert J. Aull  
Notary Public.

STATE OF MARYLAND  
BALTIMORE CITY.

Sct.

I, Robert H. Bouse, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Herbert J. Aull, Esquire, before whom the annexed affidavits were made, and who has thereto subscribed his name, was at the time of so doing a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and sworn and authorized by law to administer oaths and take acknowledgments, or proof of deeds to be recorded therein. I further certify that I am acquainted with the handwriting of the said Notary, and verily believe the signature to be his genuine signature.

In Testimony Whereof, I hereto set my hand and affix the seal of the Superior Court of Baltimore City, the same being a Court of Record, this 22nd day of October, A. D. 19 76

(SEAL) (Signed) Robert H. Bouse  
Clerk of the Superior Court of Baltimore City.

COPY OF RESOLUTION

*That Whereas*, it is necessary for the effectual transaction of business that this Company appoint agents and attorneys with power and authority to act for it and in its name in States other than Maryland, and in the Territories of the United States and in the Provinces of the Dominion of Canada and in the Colony of Newfoundland.

*Therefore, be it Resolved*, that this Company do, and it hereby does, authorize and empower its President or either of its Vice-Presidents in conjunction with its Secretary or one of its Assistant Secretaries, under its corporate seal, to appoint any person or persons as attorney or attorneys-in-fact, or agent or agents of said Company, in its name and as its act, to execute and deliver any and all contracts guaranteeing the fidelity of persons holding positions of public or private trust, guaranteeing the performances of contracts other than insurance policies and executing or guaranteeing bonds and undertakings, required or permitted in all actions or proceedings, or by law allowed, and

*Also*, in its name and as its attorney or attorneys-in-fact, or agent or agents to execute and guarantee the conditions of any and all bonds, recognizances, obligations, stipulations, undertakings or anything in the nature of either of the same, which are or may by law, municipal or otherwise, or by any Statute of the United States or of any State or Territory of the United States or of the Provinces of the Dominion of Canada or of the Colony of Newfoundland, or by the rules, regulations, orders, customs, practice or discretion of any board, body, organization, office or officer, local, municipal or otherwise, be allowed, required or permitted to be executed, made, taken, given, tendered, accepted, filed or recorded for the security or protection of, by or for any person or persons, corporation, body, office, interest, municipality or other association or organization whatsoever, in any and all capacities whatsoever, conditioned for the doing or not doing of anything or any conditions which may be provided for in any such bond, recognizance, obligation, stipulation, or undertaking, or anything in the nature of either of the same.

I, T. Hartley Marshall, an Assistant Secretary of the UNITED STATES FIDELITY AND GUARANTY COMPANY, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney given by said Company to

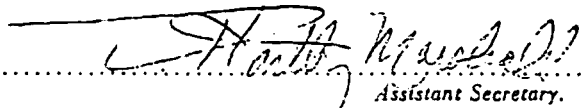
Robert R. Brown, Jr. and A. J. Johnson

of El Dorado, Arkansas, authorizing and empowering them to sign bonds as therein set forth, which power of attorney has never been revoked and is still in full force and effect.

And I do further certify that said Power of Attorney was given in pursuance of a resolution adopted at a regular meeting of the Board of Directors of said Company, duly called and held at the office of the Company in the City of Baltimore, on the 11th day of July, 1910, at which meeting a quorum of the Board of Directors was present, and that the foregoing is a true and correct copy of said resolution, and the whole thereof as recorded in the minutes of said meeting.

*In Testimony Whereof*, I have hereunto set my hand and the seal of the UNITED STATES FIDELITY AND GUARANTY COMPANY on March 15, 1985

(Date)

  
Assistant Secretary.



S U R E T Y   P E R F O R M A N C E   B O N D

U.S. Environmental Protection Agency  
Underground Injection Control  
Financial Responsibility Requirement

BOND COVERS THE PLUGGING OF INJECTION WELLS

Date bond executed: March 15, 1985

Effective date: March 15, 1985

Principal: Murphy Oil USA, Inc.  
(Legal name of owner or operator)

200 Peach Street, El Dorado, Arkansas 71730  
(Business address of owner or operator)

Type of organization: Corporation  
(Individual, joint venture,  
partnership, or corporation)

State of incorporation: Delaware

Surety(ies): United States Fidelity and Guaranty Company  
(Name)

100 Light Street, Baltimore, Maryland 21202  
(Business address)

EPA identification number, name, address, and plugging and abandonment amount(s) for each injection well guaranteed by this bond.

<u>Injection Well Information</u>		<u>Plugging &amp; Abandonment Amount</u>
MTS 21 PE-0021	EPU 5-D	\$25,000.00
MTS 21 PE-0022	EPU 1-D	\$25,000.00
MTS 21 PE-0023	EPU 8-D	\$25,000.00
MTS 21 PE-0024	EPU 29-D	\$25,000.00
MTS 21 PE-0026	EPU 80-D	\$25,000.00

Total penal sum of bond: \$125,000

Surety's bond number: 39-0130-10197-85-2

KNOW ALL PERSONS BY THESE PRESENTS, That we, the Principal and Surety(ies) hereto are firmly bound to the U.S. Environmental Protection Agency (hereinafter called EPA), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS said Principal is required, under the Underground Injection Control Regulations, as amended, to have a permit or comply with provisions to operate under rule for each injection well identified above, and

WHEREAS said Principal is required to provide financial assurance for plugging and abandonment as a condition of the permit or approval to operate under rule, and

WHEREAS said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully perform plugging and abandonment, whenever required to do so, of each injection well for which this bond guarantees plugging and abandonment, in accordance with the plugging and abandonment plan and other requirements of the permit or provisions for operating under rule and other requirements of the permit or provisions for operating under rule as may be amended, pursuant to all applicable laws, statutes, rules and regulations, as such laws, statutes, rules, and regulations may be amended,

Or, if the Principal shall provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain the EPA Regional Administrator's written approval of such assurance, within 90 days after the date of notice of cancellation is received by both the Principal and the EPA Regional Administrator(s) from the Surety(ies), then this obligation shall be null and void. Otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above.

Upon notification by an EPA Regional Administrator that the Principal has been found in violation of the plugging and abandonment requirements of 40 CFR 144, for an injection well which this bond guarantees performances of plugging and abandonment, the Surety(ies) shall either perform plugging and abandonment in accordance with the plugging and abandonment plan and other permit requirements or provisions for operating under rule and other requirements or place the amount for plugging and abandonment into a standby trust fund as directed by the EPA Regional Administrator.

Upon notification by an EPA Regional Administrator that the Principal has failed to provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain written approval of such assurance from the EPA Regional Administrator(s) during the 90 days following receipt by both the Principal and the EPA Regional Administrator(s) of a notice of cancellation of the bond, the Surety(ies) shall place funds in the amount guaranteed for the injection well(s) into the standby trust fund as directed by the EPA Regional Administrator.

The Surety(ies) hereby waive(s) notification of amendments to plugging and abandonment plans, permits, applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate its (their) obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice by certified mail to the owner or operator and to the EPA Regional Administrator(s) for the Region(s) in which the injection well(s) is (are) located, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the EPA Regional Administrator(s), as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies); provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the EPA Regional Administrator(s) of the EPA Region(s) in which the bonded injection well(s) is (are) located.

In WITNESS WHEREOF, The Principal and Surety(ies) have executed this Performance Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording on this surety bond is identical to the wording specified in 40 CFR 144.70(c) as such regulation was constituted on the date this bond was executed.

PRINCIPAL:

MURPHY OIL USA, INC.

(Name)

200 Peach Street  
El Dorado, Arkansas 71730

(Address)

CORPORATE SURETY(IES):

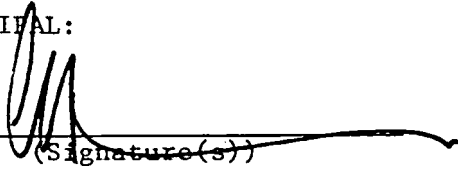
UNITED STATES FIDELITY AND  
GUARANTY COMPANY

(Name)

100 Light Street  
Baltimore, Maryland 21202

(Address)

PRINCIPAL:

  
(Signature(s))

Glenn M. Fedderson

(Name(s))

Vice President

(Title(s))

Corporate Seal

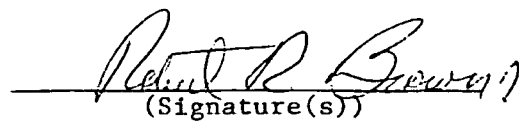
Delaware

State of Incorporation

\$ 1,250.00

Bond Premium

CORPORATE SURETY(IES):

  
(Signature(s))

Robert R. Brown, Jr.

(Name(s))

Agent and Attorney-In-Fact  
Residing In El Dorado,  
Arkansas

(Title(s))

Corporate Seal

Maryland

State of Incorporation

\$125,000

Liability Limit

(For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for Surety above.)



# GENERAL POWER OF ATTORNEY

No. 87314

Know all Men by these Presents:

That UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, and having its principal office at the City of Baltimore, in the State of Maryland, does hereby constitute and appoint Robert R. Brown, Jr. and A. J. Johnson

of the City of El Dorado, State of Arkansas,  
its true and lawful attorney ~~in and for the State of~~

for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said UNITED STATES FIDELITY AND GUARANTY COMPANY, through us, its Board of Directors, hereby ratifies and confirms all and whatsoever ~~the said~~ either the said Robert R. Brown, Jr. or the said A. J. Johnson

may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said UNITED STATES FIDELITY AND GUARANTY COMPANY has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its Vice-President and Assistant Secretary, this 22nd day of October, A. D. 1976

UNITED STATES FIDELITY AND GUARANTY COMPANY.

(Signed) By Robert E. DeNike  
Vice-President

(Signed) Michael B. Casey  
Assistant Secretary

STATE OF MARYLAND,  
BALTIMORE CITY, }

ss:

On this 22nd day of October, A. D. 1976 before me personally came Robert E. DeNike, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and Michael B. Casey, Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said that they resided in the City of Baltimore, Maryland; that they, the said Robert E. DeNike and Michael B. Casey were respectively the Vice-President and the Assistant Secretary of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their names thereto by like order as Vice-President and Assistant Secretary, respectively, of the Company.

My commission expires the first day in July, A. D. 1978....

(SEAL) (Signed) Herbert J. Aull  
Notary Public.

STATE OF MARYLAND  
BALTIMORE CITY, }  
Sct.

I, Robert H. Bouse, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Herbert J. Aull, Esquire, before whom the annexed affidavits were made, and who has thereto subscribed his name, was at the time of so doing a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and sworn and authorized by law to administer oaths and take acknowledgments, or proof of deeds to be recorded therein. I further certify that I am acquainted with the handwriting of the said Notary, and verily believe the signature to be his genuine signature.

In Testimony Whereof, I hereto set my hand and affix the seal of the Superior Court of Baltimore City, the same being a Court of Record, this 22nd day of October, A. D. 1976

(SEAL) (Signed) Robert H. Bouse  
Clerk of the Superior Court of Baltimore City.

COPY OF RESOLUTION

*That Whereas*, it is necessary for the effectual transaction of business that this Company appoint agents and attorneys with power and authority to act for it and in its name in States other than Maryland, and in the Territories of the United States and in the Provinces of the Dominion of Canada and in the Colony of Newfoundland.

*Therefore, be it Resolved*, that this Company do, and it hereby does, authorize and empower its President or either of its Vice-Presidents in conjunction with its Secretary or one of its Assistant Secretaries, under its corporate seal, to appoint any person or persons as attorney or attorneys-in-fact, or agent or agents of said Company, in its name and as its act, to execute and deliver any and all contracts guaranteeing the fidelity of persons holding positions of public or private trust, guaranteeing the performances of contracts other than insurance policies and executing or guaranteeing bonds and undertakings, required or permitted in all actions or proceedings, or by law allowed, and

*Also*, in its name and as its attorney or attorneys-in-fact, or agent or agents to execute and guarantee the conditions of any and all bonds, recognizances, obligations, stipulations, undertakings or anything in the nature of either of the same, which are or may by law, municipal or otherwise, or by any Statute of the United States or of any State or Territory of the United States or of the Provinces of the Dominion of Canada or of the Colony of Newfoundland, or by the rules, regulations, orders, customs, practice or discretion of any board, body, organization, office or officer, local, municipal or otherwise, be allowed, required or permitted to be executed, made, taken, given, tendered, accepted, filed or recorded for the security or protection of, by or for any person or persons, corporation, body, office, interest, municipality or other association or organization whatsoever, in any and all capacities whatsoever, conditioned for the doing or not doing of anything or any conditions which may be provided for in any such bond, recognizance, obligation, stipulation, or undertaking, or anything in the nature of either of the same.

I, T. Hartley Marshall, an Assistant Secretary of the UNITED STATES FIDELITY AND GUARANTY COMPANY, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney given by said Company to

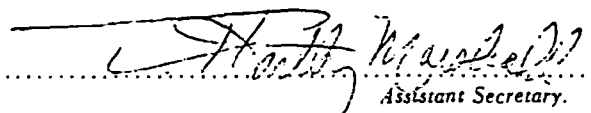
Robert R. Brown, Jr. and A. J. Johnson

of El Dorado, Arkansas, authorizing and empowering them to sign bonds as therein set forth, which power of attorney has never been revoked and is still in full force and effect.

And I do further certify that said Power of Attorney was given in pursuance of a resolution adopted at a regular meeting of the Board of Directors of said Company, duly called and held at the office of the Company in the City of Baltimore, on the 11th day of July, 1910, at which meeting a quorum of the Board of Directors was present, and that the foregoing is a true and correct copy of said resolution, and the whole thereof as recorded in the minutes of said meeting.

*In Testimony Whereof*, I have hereunto set my hand and the seal of the UNITED STATES FIDELITY AND GUARANTY COMPANY on March 15, 1985

(Date)

  
Assistant Secretary.

# RECORD OF COMMUNICATION

☒ PHONE CALL ☐ DISCUSS ☐ FIELD TRIP ☐ CONFERENCE  
☐ OTHER (SPECIFY)

(Record of item checked above)

TO:  
MURPHY INJECTION WELL APPLICATION  
FILE

FROM:  
MICHAEL LIUZZI

DATE 22April 1985

TIME 3:00 P.M.

SUBJECT  
UIC PERMIT APPLICATION FOR 1-D, 5-D, 8-D

## SUMMARY OF COMMUNICATION

TALKED TO SID CAMPBELL THIS DATE CONCERNING THE INFORMATION THAT I HAD REQUESTED IN MY 12 APRIL 1985 TELEPHONE CONVERSATION. AGAIN, WRITTEN LOG INTERPRETATION FOR 1-D, 5-D, 8-D; ADDITIONAL INFORMATION FOR EPU#78; AND THE WRITTEN EXPLANATION THAT THE LOG ENTITLED 4-D applies to infection well 8-D.

HIS EXPLANATION WAS THAT HE WAS HOLDING THE INFORMATION UNTIL ALL WELL LOG INTERPRETATION WAS RECEIVED AND THAT HE WAS IN NO HURRY BECAUSE HE WAS AWAITING THE OUTCOME OF THE HEARING ON THE JUDITH RIVER. I EXPLAINED THAT ACCORDING TO OUR TELEPHONE CONVERSATION ON THE 12th THAT HE WAS GOING TO SEND ME THE INFORMATION ON THE 15th OF APRIL. BECAUSE IT IS NOW THE 22nd AND THE HISTORY OF SENDING IN REQUESTED INFO. A LITTLE BIT AT A TIME THAT HE HAD UNTIL C.O.B. 23rd OF APRIL TO GET INFO. TO US. IF HE NEEDED UNTIL THE 24th TO SEND IN BY OVERNIGHT MAIL, I WOULD BE WILLING TO ALLOW THAT. HE RESPONDED THAT IF EPA HAD TELEX FACILITIES, HE WOULD SEND IN BY C.O.B. THE 23rd. I GAVE HIS SECRETARY THE TELEX TELEPHONE NUMBER (910-931-2215).

## CONCLUSIONS, ACTION TAKEN OR REQUIRED

CHECK WITH TELEX PEOPLE AT 1860 LINCOLN STREET ON THE 23rd TO VERIFY RECEIPT AND COMPLETENESS OF INFORMATION. IF INFORMATION IS NOT RECEIVED THEN A TELEGRAM WILL BE SENT TO NOTIFY MURPHY OIL OF SHUTTING IN OF THE APPROPRIATE WELLS.

## INFORMATION COPIES

TO:  
PAT CROTTY, DEB EHLERT, ANGUS CAMPBELL



# RECORD OF COMMUNICATION

☒ PHONE CALL ☐ DISCUSS ☐ FIELD TRIP ☐ CONFERENCE  
☐ OTHER (SPECIFY)

(Record of item checked above)

TO: MURPHY INJECTION WELL  
APPLICATION FILE

FROM: MICHAEL J. LIUZZI

DATE 12 APRIL '85

TIME 12:15 PM

## SUBJECT

UIC PERMIT APPLICATION FOR 1-D, 5-D, 8-D

## SUMMARY OF COMMUNICATION

Talked to Sid Campbell about information still incomplete for the above well applications. Responses to my questions in the certified letter dated Feb 26, 1985 were found among the various info. submitted on March 15, 1985. Talked to Sid about the following items for the particular well indicated:

1-D--Need an interpretation of radioactive tracer survey performed by Gearhart.

-Additional info. required for EPU #78. He will mail on Monday 15th of April the status of the T.A. well.

-B&A form indicates a change to Balance Method for emplacement of cement plug required to meet the 50' minimum.

-Cutting " description submitted is for EPU #78 located 2 miles away from EPU 1-D in Sec 2-28N-51E. This explains the difference in elevation for Judith River indicated on Elect. Log and on the cutting description.

5-D--Need interpretation of Radioactive Tracer Survey performed by Gearhart.

-P&A form does not have Method of cement plug emplacement indicated.

-It will be done by the Balance Method.

8-D--Need an interpretation of the radioactive tracer survey performed by Gearhart.

-Nomenclature on R.T. survey "4-D" refers to Saltwater Disposal Station No. 4 which is located at EPU #8-D. Therefore "4-D" and "8-D" are one in the same.

-Correction to all Form #'s to list the attachments as "A, E, G, H, M, Q, R, to U".

Sid Campbell will pen and ink changes where appropriate and will submit written information for EPU # 78 and the explanation of 4-D and 8-D being the same.

## CONCLUSIONS, ACTION TAKEN OR REQUIRED

FINDING THE RESPONSES WITHIN THE INFORMATION SUBMITTED AVOIDED HAVING TO REQUIRE OVER NIGHT SUBMITTAL OF THE INFORMATION OR THE WELLS WOULD BE SHUT IN. WRITTEN INTERPRETATION OF THE SURVEYS, ADDITIONAL INFORMATION FOR EPU #78, AND THE WRITTEN EXPLANATION OF 4-D and 8-D BEING THE SAME.

## INFORMATION COPIES

TO: A T CROTTY, DEB EHLERT, ANGUS CAMPBELL





200 PEACH STREET  
EL DORADO, ARKANSAS 71730

*Received in Drinking  
Water Branch  
4/4/85*

April 2, 1985

Mr. Angus Campbell  
Environmental Protection Agency  
Region VIII  
1860 Lincoln Street  
Denver, Colorado 80295-0699

East Poplar Unit  
Tracer Survey's -  
Final Print

Dear Mr. Campbell:

Enclosed is one final print of each tracer survey run on the East Poplar Unit disposal wells; well numbers 1-D, 5-D, 8-D, 29-D, and 80-D. These final prints are to replace the field prints included in the latest response.

Yours very truly,

*Sidney W. Campbell*  
Sidney W. Campbell  
Sr. Petroleum Engineer

SWC/ac  
cc: Ray Reede  
Poplar, Montana



SUBJECT: MURPHY OIL USA INC.  
E.P.U. 29-D  
EAST POPLAR UNIT  
ROOSEVELT CO. MT  
23-29N-51E

STATIONARY SHOT #1 IN TUBING INDICATES AN INJECTION RATE OF 710 B/D. SUBSEQUENT CASING VELOCITY SHOTS INDICATE SCALE BUILDUP IN CASING TO AN ID OF APPROXIAMATELY 4-5/8 ACROSS INTERVALS TESTED. 1ST VELOCITY SHOT AND DTL INDICATE PACKER INTEGRITY. VELOCITY #2 INDICATES NO CHANNEL ABOVE PERFS, ALL MOVEMENT DOWN HOLE. GAMMA RAY AFTER INDICATES ALL FLUID EXITING PERFS.

ALL OF THE ABOVE INTERPRETATIONS APPLY ONLY TO THE WELL CONDITIONS AT THE TIME THAT THE SURVEYS WERE TAKEN.

Received in DWB  
3/19/85

# UNITED AGENCY

116 WEST ELM • (501) 863-4123 • P. O. BOX 1604 • EL DORADO, ARK. 71730 - 1604

March 15, 1985

Mr. Max H. Dodson  
Director-Water Management Division  
United States Environmental Protection Agency  
Region VIII  
1860 Lincoln Street  
Denver, Colorado 80295

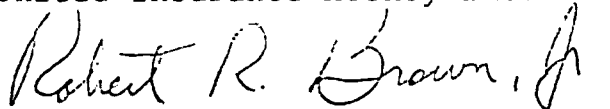
Murphy Oil USA, Inc.  
Bond No. 39 0130 10197 85 2

Dear Mr. Dodson:

Enclosed is the above captioned bond with  
power of attorney attached. Also enclosed  
is trust agreement with power of attorney.

Very truly yours,

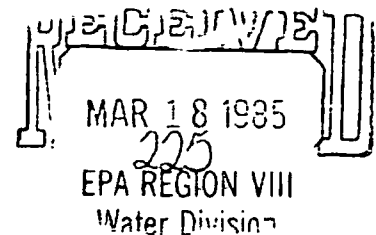
United Insurance Agency Inc.



Robert R. Brown, Jr.

Enclosures:

CC: Mr. M. O. Colvin  
Murphy Oil USA, Inc.  
200 Peach Street  
El Dorado, Arkansas 71730



S T A N D B Y   T R U S T   A G R E E M E N T

U.S. Environmental Protection Agency  
Underground Injection Control  
Financial Responsibility Requirement

TRUST AGREEMENT, the "Agreement," entered into as of March 15, 1985  
(date)  
by and between Murphy Oil USA, Inc.  
(name of owner or operator)  
a Delaware Corporation, the "Grantor," and  
(name of state) (corporation, partnership,  
association, or proprietorship)  
United States Fidelity and Guaranty Company, (X) incorporated in the State  
(name of corporate trustee)  
of Maryland or ( ) a national bank, the "Trustee."

WHEREAS, the United States Environmental Protection Agency, "EPA," an agency of the United States Government, has established certain regulations applicable to the Grantor, requiring that an owner or operator of an injection well shall provide assurance that funds will be available when needed for plugging and abandonment of the injection well, and

WHEREAS, the Grantor has elected to obtain (X) a surety bond ( ) a letter of credit and establish a standby trust to provide all or part of such financial assurance for the facility(ies) identified herein, and

WHEREAS, the Grantor, acting through its duly authorized officers, has selected the Trustee to be the trustee under this Agreement, and the Trustee is willing to act as trustee.

NOW, THEREFORE, the Grantor and the Trustee agree as follows:

Section 1. Definitions. As used in this Agreement:

(a) The term "Grantor" means the owner or operator who enters into this Agreement and any successors or assigns of the Grantor.

(b) The term "Trustee" means the Trustee who enters into this Agreement and any successor Trustee.

(c) "Facility" or "activity" means any underground injection well or any other facility or activity that is subject to regulation under the Underground Injection Control Program.



Section 2. Identification of Facilities and Cost Estimates. This Agreement pertains to the facilities and cost estimates identified in Schedule A (attached). (Schedule A lists, for each facility, the EPA identification number, name, address, and the current plugging and abandonment cost estimate, or portions thereof, for which financial assurance is demonstrated.)

Section 3. Establishment of Fund. The Grantor and the Trustee hereby establish a trust fund, the "Fund," for the benefit of EPA. The Grantor and the Trustee intend that no third party have access to the Fund except as herein provided. The Fund is established initially as consisting of the property, which is acceptable to the Trustee, described in Schedule B attached hereto. Such property and any other property subsequently transferred to the Trustee is referred to as the Fund, together with all earnings and profits thereon, less any payments or distributions made by the Trustee pursuant to this Agreement. The Fund shall be held by the Trustee, IN TRUST, as hereinafter provided. The Trustee shall not be responsible nor shall it undertake any responsibility for the amount or adequacy of, nor any duty to collect from the Grantor, any payments necessary to discharge any liabilities of the Grantor established by EPA.

Section 4. Payment for Plugging and Abandonment. The Trustee shall make payments from the Fund as the EPA Regional Administrator shall direct, in writing, to provide for the payment of the costs of plugging and abandonment of the injection wells covered by this Agreement. The Trustee shall reimburse the Grantor or other persons as specified by the EPA Regional Administrator from the Fund for plugging and abandonment expenditures in such amounts as the EPA Regional Administrator shall direct in writing. In addition, the Trustee shall refund to the Grantor such amounts as the EPA Regional Administrator specifies in writing. Upon refund, such funds shall no longer constitute part of the Fund as defined herein.

Section 5. Payments Comprising the Fund. Payments made to the Trustee for the Fund shall consist of cash or securities acceptable to the Trustee.

Section 6. Trustee Management. The Trustee shall invest and reinvest the principal and income of the Fund and keep the Fund invested as a single fund, without distinction between principal and income, in accordance with general investment policies and guidelines which the Grantor may communicate in writing to the Trustee from time to time, subject, however, to the provisions of this Section. In investing, reinvesting, exchanging, selling, and managing the Fund, the Trustee shall discharge his duties with respect to the trust fund solely in the interest of the beneficiary and with the care, skill, prudence, and diligence under the circumstances then prevailing, which persons of prudence, acting in a like capacity and familiar with such matters, would use in the conduct of an enterprise of a like character and with like aims, except that:

(a) Securities or other obligations of the Grantor, or any other owner or operator of the facilities, or any of their affiliates as defined in the Investment Company Act of 1940, as amended, 15 USC 80a-2.(a), shall not be acquired or held, unless they are securities or other obligations of the Federal or a State government;

(b) The Trustee is authorized to invest the Fund in time or demand deposits of the Trustee, to the extent insured by an agency of the Federal or State government; and

(c) The Trustee is authorized to hold cash awaiting investment or distribution uninvested for a reasonable time and without liability for the payment of interest thereon.

Section 7. Commingling and Investment. The Trustee is expressly authorized in its discretion:

(a) To transfer from time to time any or all of the assets of the Fund to any common, commingled, or collective trust fund created by the Trustee in which the Fund is eligible to participate, subject to all of the provisions thereof, to be commingled with the assets of other trusts participating therein; and

(b) To purchase shares in any investment company registered under the Investment Company Act of 1940, 15 U.S.C. 80a-1 et seq., including one which may be created, managed, underwritten, or to which investment advice is rendered or the shares of which are sold by the Trustee. The Trustee may vote such shares in its discretion.

Section 8. Express Powers of Trustee. Without in any way limiting the powers and discretions conferred upon the Trustee by the other provisions of this Agreement or by law, the Trustee is expressly authorized and empowered:

(a) To sell, exchange, convey, transfer, or otherwise dispose of any property held by it, by public or private sale. No person dealing with the Trustee shall be bound to see to the application of the purchase money or to inquire into the validity or expediency of any such sale or other disposition;

(b) To make, execute, acknowledge, and deliver any and all documents of transfer and conveyance and any and all other instruments that may be necessary or appropriate to carry out the powers herein granted;

(c) To register any securities held in the Fund in its own name or in the name of a nominee and to hold any security in bearer form or in book entry, or to combine certificates representing such securities with certificates of the same issue held by the Trustee in other fiduciary capacities, or to deposit or arrange for the deposit of any securities issued by the United States Government, or any agency or instrumentality thereof, with a Federal Reserve bank, but the books and records of the Trustee shall at all times show that all such securities are part of the Fund;

(d) To deposit any cash in the fund in interest-bearing accounts maintained or savings certificates issued by the Trustee, in its separate corporate capacity, or in any other banking institution affiliated with the Trustee, to the extent insured by an agency of the Federal or State government; and

(e) To compromise or otherwise adjust all claims in favor of or against the Fund.

Section 9. Taxes and Expenses. All taxes of any kind that may be assessed or levied against or in respect of the Fund and all brokerage commissions incurred by the Fund shall be paid from the Fund. All other expenses incurred by the Trustee in connection with the administration of this Trust, including fees for legal services rendered to the Trustee, the compensation of the Trustee to the extent not paid directly by the Grantor, and all other proper charges and disbursements of the Trustee, shall be paid from the Fund.

Section 10. Annual Valuation. Commencing after initial funding of the trust, the Trustee shall annually, at least 30 days prior to the anniversary date of establishment of the Fund, furnish to the Grantor and to the appropriate EPA Regional Administrator a statement confirming the value of the Trust. Any securities in the Fund shall be valued at the market value as of no more than 60 days prior to the anniversary date of establishment of the Fund. The failure of the Grantor to object in writing to the Trustee within 90 days after the statement has been furnished to the Grantor and the EPA Regional Administrator shall constitute a conclusively binding assent by the Grantor, barring the Grantor from asserting any claim or liability against the Trustee with respect to matters disclosed in the statement.

Section 11. Advice of Counsel. The Trustee may from time to time consult with counsel, who may be counsel to the Grantor, with respect to any question arising as to the construction of this Agreement or any action to be taken hereunder. The Trustee shall be fully protected, to the extent permitted by law, in acting upon the advice of counsel.

Section 12. Trustee Compensation. The Trustee shall be entitled to reasonable compensation for its services as agreed upon in writing from time to time with the Grantor.

Section 13. Successor Trustee. The Trustee may resign or the Grantor may replace the Trustee, but such resignation or replacement shall not be effective until the Grantor has appointed a successor trustee and this successor accepts the appointment. The successor trustee shall have the same powers and duties as those conferred upon the Trustee hereunder. Upon the successor trustee's acceptance of the appointment, the Trustee shall assign, transfer, and pay over to the successor trustee the funds and properties then

constituting the Fund. If for any reason the Grantor cannot or does not act in the event of the resignation of the Trustee, the Trustee may apply to a court of competent jurisdiction for the appointment of a successor trustee or for instructions. The successor trustee shall specify the date on which it assumes administration of the trust in a writing sent to the Grantor, the EPA Regional Administrator, and the present Trustee by certified mail 10 days before such change becomes effective. Any expenses incurred by the Trustee as a result of any of the acts contemplated by this Section shall be paid as provided in Section 9.

Section 14. Instructions to the Trustee. All orders, requests, and instruction by the Grantor to the Trustee shall be in writing, signed by such persons as are designated in the attached Exhibit A, or such other designees as the Grantor may designate by amendment to Exhibit A. The Trustee shall be fully protected in acting without inquiry in accordance with the Grantor's orders, requests, and instructions. All orders, requests, and instructions by the EPA Regional Administrator to the Trustee shall be in writing, signed by the EPA Regional Administrators of the Regions in which the facilities are located, or their designees, and the Trustee shall act and shall be fully protected in acting in accordance with such orders, requests, and instructions. The Trustee shall have the right to assume, in the absence of written notice to the contrary, that no event constituting a change or a termination of the authority of any person to act on behalf of the Grantor or EPA hereunder has occurred. The Trustee shall have no duty to act in the absence of such orders, requests, and instructions from the Grantor and/or EPA, except as provided for herein.

Section 15. Amendment of Agreement. This Agreement may be amended by an instrument in writing executed by the Grantor, the Trustee, and the appropriate EPA Regional Administrator, or by the Trustee and the appropriate EPA Regional Administrator if the Grantor ceases to exist.

Section 16. Irrevocability and Termination. Subject to the right of the parties to amend this Agreement as provided in Section 16, this Trust shall be irrevocable and shall continue until terminated at the written agreement of the Grantor, the Trustee, and the EPA Regional Administrator, or by the Trustee and the EPA Regional Administrator if the Grantor ceases to exist. Upon termination of the Trust, all remaining trust property, less final trust administration expenses, shall be delivered to the Grantor.

Section 17. Immunity and Indemnification. The Trustee shall not incur personal liability of any nature in connection with any act or omission, made in good faith, in the administration of this Trust, or in carrying out any directions by the Grantor or the EPA Regional Administrator issued in accordance with this Agreement. The Trustee shall be indemnified and saved harmless by the Grantor or by the Trust fund, or both, from and against any personal liability to which the Trustee may be subjected by reason of any act or conduct in its official capacity, including all expenses reasonably incurred in its defense in the event the Grantor fails to provide such defense.

Section 18. Choice of Law. This Agreement shall be administered, construed, and enforced according to the laws of the State of Arkansas.

Section 19. Interpretation. As used in this Agreement, words in the singular include the plural and words in the plural include the singular. The descriptive headings for each Section of this Agreement shall not affect the interpretation or the legal efficacy of this Agreement.

IN WITNESS WHEREOF, the parties below have caused this Agreement to be executed by their respective officers duly authorized and the corporate seals to be hereunto affixed and attested as of the date first above written.

By: [Signature]  
(Signature of Grantor)

Vice President  
(Title)

Attest: Ann C. Lipe

Assistant Secretary  
(Title)

(SEAL)

By: Robert R. Brown  
(Signature of Trustee)

Agent and Attorney-In-Fact  
Residing in El Dorado, Arkansas  
(Title)

Attest: \_\_\_\_\_

\_\_\_\_\_  
(Title)

(SEAL)

CERTIFICATE OF ACKNOWLEDGMENT

FOR

STANDBY TRUST FUND AGREEMENT

STATE OF ARKANSAS

COUNTY OF UNION

On this 15th day of March, 1985, before me personally came Glenn M. Fedderson to me known, who, being by me duly sworn, did depose and say that he resides at 200 Peach Street, El Dorado, Arkansas 71730, that he is Vice President of Murphy Oil USA, Inc., the corporation described in and which executed the above instrument; that he knows the seal of said corporation; that the seal affixed to such instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said corporation, and that he signed his name thereto by like order.

L. Frieda L. Lavin  
(Notary Public)

My Commission expires

(Seal)

March 1, 1993



# SCHEDULE A

## Identification of Facilities and Cost Estimates

Schedule A is referenced in the trust agreement dated March 15, 1985 by and between Murphy Oil USA, Inc., the "Grantor," and United States Fidelity and Guaranty Company, the "Trustee."  
(name of owner or operator) (name of trustee)

EPA identification number	MTS 21 PE-0021
Name of facility	EPU 5-D
Address of facility	P. O. Box 547 Poplar, Montana 59255

Current plugging and abandonment cost estimate	\$25,000.00
Date of estimate	3-12-85

EPA identification number	MTS 21 PE-0022
Name of facility	EPU 1-D
Address of facility	P. O. Box 547 Poplar, Montana 59255

Current plugging and abandonment cost estimate	\$25,000.00
Date of estimate	

EPA identification number	MTS 21 PE-0023
Name of facility	EPU 8-D
Address of facility	P. O. Box 547 Poplar, Montana 59255

Current plugging and abandonment cost estimate	\$25,000.00
Date of estimate	

EPA identification number	MTS 21 PE-0024
Name of facility	EPU 29-D
Address of facility	P. O. Box 547 Poplar, Montana 59255

Current plugging and abandonment cost estimate	\$25,000.00
Date of estimate	

EPA identification number  
Name of facility  
Address of facility

MTS 21 PE-0026  
EPU 80-D  
P. O. Box 547  
Poplar, Montana 59255

Current plugging and  
abandonment cost estimate  
Date of estimate

\$25,000.00

CERTIFIED COPY

GENERAL POWER OF ATTORNEY

No. 87314

Know all Men by these Presents:

That UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, and having its principal office at the City of Baltimore, in the State of Maryland, does hereby constitute and appoint Robert R. Brown, Jr. and A. J. Johnson

of the City of El Dorado, State of Arkansas  
its true and lawful attorney ~~XXXXXXXXXX~~

for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said UNITED STATES FIDELITY AND GUARANTY COMPANY, through us, its Board of Directors, hereby ratifies and confirms all and whatsoever ~~the said~~ either the said Robert R. Brown, Jr. or the said A. J. Johnson

may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said UNITED STATES FIDELITY AND GUARANTY COMPANY has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its Vice-President and Assistant Secretary, this 22nd day of October, A. D. 1976

UNITED STATES FIDELITY AND GUARANTY COMPANY.

(Signed) By Robert E. DeNike  
Vice-President.

(SEAL) (Signed) Michael B. Casey  
Assistant Secretary.

STATE OF MARYLAND, }  
BALTIMORE CITY, } ss:

On this 22nd day of October, A. D. 1976 before me personally came Robert E. DeNike, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and Michael B. Casey, Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said that they resided in the City of Baltimore, Maryland; that they, the said Robert E. DeNike and Michael B. Casey were respectively the Vice-President and the Assistant Secretary of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their names thereto by like order as Vice-President and Assistant Secretary, respectively, of the Company. My commission expires the first day in July, A. D. 1978....

(SEAL) (Signed) Herbert J. Aull  
Notary Public.

STATE OF MARYLAND }  
BALTIMORE CITY, } Sect.

I, Robert H. Bouse, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Herbert J. Aull, Esquire, before whom the annexed affidavits were made, and who has thereto subscribed his name, was at the time of so doing a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and sworn and authorized by law to administer oaths and take acknowledgments, or proof of deeds to be recorded therein. I further certify that I am acquainted with the handwriting of the said Notary, and verily believe the signature to be his genuine signature.

In Testimony Whereof, I hereto set my hand and affix the seal of the Superior Court of Baltimore City, the same being a Court of Record, this 22nd day of October, A. D. 1976

(SEAL) (Signed) Robert H. Bouse  
Clerk of the Superior Court of Baltimore City.

COPY OF RESOLUTION

*That Whereas*, it is necessary for the effectual transaction of business that this Company appoint agents and attorneys with power and authority to act for it and in its name in States other than Maryland, and in the Territories of the United States and in the Provinces of the Dominion of Canada and in the Colony of Newfoundland.

*Therefore, be it Resolved*, that this Company do, and it hereby does, authorize and empower its President or either of its Vice-Presidents in conjunction with its Secretary or one of its Assistant Secretaries, under its corporate seal, to appoint any person or persons as attorney or attorneys-in-fact, or agent or agents of said Company, in its name and as its act, to execute and deliver any and all contracts guaranteeing the fidelity of persons holding positions of public or private trust, guaranteeing the performances of contracts other than insurance policies and executing or guaranteeing bonds and undertakings, required or permitted in all actions or proceedings, or by law allowed, and

*Also*, in its name and as its attorney or attorneys-in-fact, or agent or agents to execute and guarantee the conditions of any and all bonds, recognizances, obligations, stipulations, undertakings or anything in the nature of either of the same, which are or may by law, municipal or otherwise, or by any Statute of the United States or of any State or Territory of the United States or of the Provinces of the Dominion of Canada or of the Colony of Newfoundland, or by the rules, regulations, orders, customs, practice or discretion of any board, body, organization, office or officer, local, municipal or otherwise, be allowed, required or permitted to be executed, made, taken, given, tendered, accepted, filed or recorded for the security or protection of, by or for any person or persons, corporation, body, office, interest, municipality or other association or organization whatsoever, in any and all capacities whatsoever, conditioned for the doing or not doing of anything or any conditions which may be provided for in any such bond, recognizance, obligation, stipulation, or undertaking, or anything in the nature of either of the same.

I, T. Hartley Marshall, an Assistant Secretary of the UNITED STATES FIDELITY AND GUARANTY COMPANY, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney given by said Company to

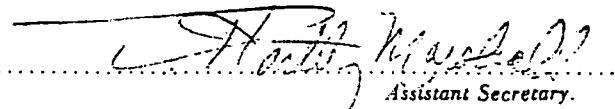
Robert R. Brown, Jr. and A. J. Johnson

of El Dorado, Arkansas, authorizing and empowering them to sign bonds as therein set forth, which power of attorney has never been revoked and is still in full force and effect.

And I do further certify that said Power of Attorney was given in pursuance of a resolution adopted at a regular meeting of the Board of Directors of said Company, duly called and held at the office of the Company in the City of Baltimore, on the 11th day of July, 1910, at which meeting a quorum of the Board of Directors was present, and that the foregoing is a true and correct copy of said resolution, and the whole thereof as recorded in the minutes of said meeting.

*In Testimony Whereof*, I have hereunto set my hand and the seal of the UNITED STATES FIDELITY AND GUARANTY COMPANY on March 15, 1985

(Date)

  
Assistant Secretary.

S U R E T Y   P E R F O R M A N C E   B O N D

U.S. Environmental Protection Agency  
Underground Injection Control  
Financial Responsibility Requirement

BOND COVERS THE PLUGGING OF INJECTION WELLS

Date bond executed: March 15, 1985

Effective date: March 15, 1985

Principal: Murphy Oil USA, Inc.  
(Legal name of owner or operator)

200 Peach Street, El Dorado, Arkansas 71730  
(Business address of owner or operator)

Type of organization: Corporation  
(Individual, joint venture,  
partnership, or corporation)

State of incorporation: Delaware

Surety(ies): United States Fidelity and Guaranty Company  
(Name)

100 Light Street, Baltimore, Maryland 21202  
(Business address)

EPA identification number, name, address, and plugging and abandonment amount(s) for each injection well guaranteed by this bond.

<u>Injection Well Information</u>		<u>Plugging &amp; Abandonment Amount</u>
MTS 21 PE-0021	EPU 5-D	\$25,000.00
MTS 21 PE-0022	EPU 1-D	\$25,000.00
MTS 21 PE-0023	EPU 8-D	\$25,000.00
MTS 21 PE-0024	EPU 29-D	\$25,000.00
MTS 21 PE-0026	EPU 80-D	\$25,000.00

Total penal sum of bond: \$125,000

Surety's bond number: 39-0130-10197-85-2

KNOW ALL PERSONS BY THESE PRESENTS, That we, the Principal and Surety(ies) hereto are firmly bound to the U.S. Environmental Protection Agency (hereinafter called EPA), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS said Principal is required, under the Underground Injection Control Regulations, as amended, to have a permit or comply with provisions to operate under rule for each injection well identified above, and

WHEREAS said Principal is required to provide financial assurance for plugging and abandonment as a condition of the permit or approval to operate under rule, and

WHEREAS said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully perform plugging and abandonment, whenever required to do so, of each injection well for which this bond guarantees plugging and abandonment, in accordance with the plugging and abandonment plan and other requirements of the permit or provisions for operating under rule and other requirements of the permit or provisions for operating under rule as may be amended, pursuant to all applicable laws, statutes, rules and regulations, as such laws, statutes, rules, and regulations may be amended,

Or, if the Principal shall provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain the EPA Regional Administrator's written approval of such assurance, within 90 days after the date of notice of cancellation is received by both the Principal and the EPA Regional Administrator(s) from the Surety(ies), then this obligation shall be null and void. Otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above.

Upon notification by an EPA Regional Administrator that the Principal has been found in violation of the plugging and abandonment requirements of 40 CFR 144, for an injection well which this bond guarantees performances of plugging and abandonment, the Surety(ies) shall either perform plugging and abandonment in accordance with the plugging and abandonment plan and other permit requirements or provisions for operating under rule and other requirements or place the amount for plugging and abandonment into a standby trust fund as directed by the EPA Regional Administrator.



Upon notification by an EPA Regional Administrator that the Principal has failed to provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain written approval of such assurance from the EPA Regional Administrator(s) during the 90 days following receipt by both the Principal and the EPA Regional Administrator(s) of a notice of cancellation of the bond, the Surety(ies) shall place funds in the amount guaranteed for the injection well(s) into the standby trust fund as directed by the EPA Regional Administrator.

The Surety(ies) hereby waive(s) notification of amendments to plugging and abandonment plans, permits, applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate its (their) obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice by certified mail to the owner or operator and to the EPA Regional Administrator(s) for the Region(s) in which the injection well(s) is (are) located, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the EPA Regional Administrator(s), as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies); provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the EPA Regional Administrator(s) of the EPA Region(s) in which the bonded injection well(s) is (are) located.

In WITNESS WHEREOF, The Principal and Surety(ies) have executed this Performance Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording on this surety bond is identical to the wording specified in 40 CFR 144.70(c) as such regulation was constituted on the date this bond was executed.

PRINCIPAL:

MURPHY OIL USA, INC.  
(Name)

200 Peach Street  
El Dorado, Arkansas 71730  
(Address)

CORPORATE SURETY(IES):

UNITED STATES FIDELITY AND  
GUARANTY COMPANY  
(Name)

100 Light Street  
Baltimore, Maryland 21202  
(Address)

PRINCIPAL:

  
(Signature(s))

Glenn M. Fedderson

(Name(s))

Vice President

(Title(s))

Corporate Seal


Delaware

State of Incorporation

\$ 1,250.00

Bond Premium

CORPORATE SURETY(IES):

  
(Signature(s))

Robert R. Brown, Jr.

(Name(s))

Agent and Attorney-In-Fact  
Residing In El Dorado,  
Arkansas

(Title(s))

Corporate Seal

Maryland

State of Incorporation

\$125,000

Liability Limit

(For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for Surety above.)

CERTIFIED COPY

# GENERAL POWER OF ATTORNEY

No. 87314

Know all Men by these Presents:

That UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, and having its principal office at the City of Baltimore, in the State of Maryland, does hereby constitute and appoint Robert R. Brown, Jr. and A. J. Johnson

of the City of El Dorado, State of Arkansas  
its true and lawful attorney ~~and for the State of Ark~~

for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said UNITED STATES FIDELITY AND GUARANTY COMPANY, through us, its Board of Directors, hereby ratifies and confirms all and whatsoever ~~in and~~ either the said Robert R. Brown, Jr. or the said A. J. Johnson

may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said UNITED STATES FIDELITY AND GUARANTY COMPANY has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its Vice-President and Assistant Secretary, this 22nd day of October, A. D. 1976

UNITED STATES FIDELITY AND GUARANTY COMPANY.

(Signed) By Robert E. DeNike  
Vice-President.

(SEAL) (Signed) Michael B. Casey  
Assistant Secretary.

STATE OF MARYLAND, }  
BALTIMORE CITY. } ss:

On this 22nd day of October, A. D. 1976 before me personally came Robert E. DeNike, Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and Michael B. Casey, Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said that they resided in the City of Baltimore, Maryland; that they, the said Robert E. DeNike and Michael B. Casey were respectively the Vice-President and the Assistant Secretary of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, the corporation described in and which executed the foregoing Power of Attorney; that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal, that it was so fixed by order of the Board of Directors of said corporation, and that they signed their names thereto by like order as Vice-President and Assistant Secretary, respectively, of the Company. My commission expires the first day in July, A. D. 1978....

(SEAL) (Signed) Herbert J. Aull  
Notary Public.

STATE OF MARYLAND }  
BALTIMORE CITY. } Sci.

I, Robert H. Bouse, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Herbert J. Aull, Esquire, before whom the annexed affidavits were made, and who has thereto subscribed his name, was at the time of so doing a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and sworn and authorized by law to administer oaths and take acknowledgments, or proof of deeds to be recorded therein. I further certify that I am acquainted with the handwriting of the said Notary, and verily believe the signature to be his genuine signature.

In Testimony Whereof, I hereto set my hand and affix the seal of the Superior Court of Baltimore City, the same being a Court of Record, this 22nd day of October, A. D. 1976

(SEAL) (Signed) Robert H. Bouse  
Clerk of the Superior Court of Baltimore City.

COPY OF RESOLUTION

*That Whereas*, it is necessary for the effectual transaction of business that this Company appoint agents and attorneys with power and authority to act for it and in its name in States other than Maryland, and in the Territories of the United States and in the Provinces of the Dominion of Canada and in the Colony of Newfoundland.

*Therefore, be it Resolved*, that this Company do, and it hereby does, authorize and empower its President or either of its Vice-Presidents in conjunction with its Secretary or one of its Assistant Secretaries, under its corporate seal, to appoint any person or persons as attorney or attorneys-in-fact, or agent or agents of said Company, in its name and as its act, to execute and deliver any and all contracts guaranteeing the fidelity of persons holding positions of public or private trust, guaranteeing the performances of contracts other than insurance policies and executing or guaranteeing bonds and undertakings, required or permitted in all actions or proceedings, or by law allowed, and

*Also*, in its name and as its attorney or attorneys-in-fact, or agent or agents to execute and guarantee the conditions of any and all bonds, recognizances, obligations, stipulations, undertakings or anything in the nature of either of the same, which are or may be by law, municipal or otherwise, or by any Statute of the United States or of any State or Territory of the United States or of the Provinces of the Dominion of Canada or of the Colony of Newfoundland, or by the rules, regulations, orders, customs, practice or discretion of any board, body, organization, office or officer, local, municipal or otherwise, be allowed, required or permitted to be executed, made, taken, given, tendered, accepted, filed or recorded for the security or protection of, by or for any person or persons, corporation, body, office, interest, municipality or other association or organization whatsoever, in any and all capacities whatsoever, conditioned for the doing or not doing of anything or any conditions which may be provided for in any such bond, recognizance, obligation, stipulation, or undertaking, or anything in the nature of either of the same.

I, T. Hartley Marshall, an Assistant Secretary of the UNITED STATES FIDELITY AND GUARANTY COMPANY, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney given by said Company to

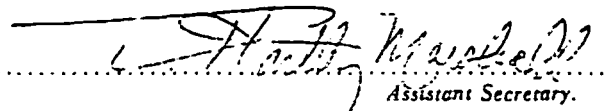
Robert R. Brown, Jr. and A. J. Johnson

of El Dorado, Arkansas, authorizing and empowering them to sign bonds as therein set forth, which power of attorney has never been revoked and is still in full force and effect.

And I do further certify that said Power of Attorney was given in pursuance of a resolution adopted at a regular meeting of the Board of Directors of said Company, duly called and held at the office of the Company in the City of Baltimore, on the 11th day of July, 1910, at which meeting a quorum of the Board of Directors was present, and that the foregoing is a true and correct copy of said resolution, and the whole thereof as recorded in the minutes of said meeting.

In Testimony Whereof, I have hereunto set my hand and the seal of the UNITED STATES FIDELITY AND GUARANTY COMPANY on March 15, 1985

(Date)

  
Assistant Secretary.

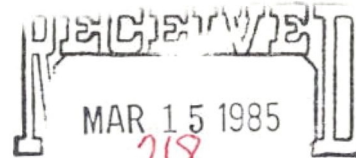
RECORD OF COMMUNICATION		<input type="checkbox"/> PHONE CALL <input type="checkbox"/> DISCUSSION <input type="checkbox"/> FIELD TRIP <input type="checkbox"/> CONFERENCE <input type="checkbox"/> OTHER (SPECIFY)			
		(Record of item checked above)			
TO: MURPHY INJ. Well Application File		FROM: MICHAEL Luzzi		DATE: 15 MAR	
				TIME: 2:30 PM	
SUBJECT: UIC Permit App for 1-0, 5-0, 8-0, 29-0, 59-0, 80-0 RESPONSE TO DEFICIENCIES					
<p>SIO CAMPBELL CALLED to alert us to two FEDERAL EXPRESS PACKAGES Mailed yesterday and they should arrive today. ONE package has responses to deficiencies. Tracer survey done in conjunction with temperature log is a teletype and the final copy will be sent when it arrives from Montana. The second package contains the Bond &amp; Trust.</p> <p>[Package with deficiencies arrived at approx. 4 pm. Attempted to call SIO but did not get through.]</p>					
CONCLUSIONS, ACTION TAKEN OR REQUIRED					
<p>Responses to deficiencies are ahead of the deadline - 19 Mar 85. TRUST &amp; Bond should arrive Monday - 18 Mar 85.</p>					
INFORMATION COPIES					
TO: PAT CROTTY, DEB EHLERT, Angus CAMPBELL					



200 PEACH STREET  
EL DORADO, ARKANSAS 71730

*Received in Drinking  
Water Branch  
3/15/85*

March 14, 1985



EPA REGION VIII  
Water Division

Mr. Max H. Dodson, Director  
Water Management Division  
United States Environmental  
Protection Agency, Region VIII  
1860 Lincoln Street  
Denver, Colorado 80295-0699

Re: Underground Injection Control  
(UIC) Permit Application for:  
East Poplar Field Well Nos. 1-D,  
5-D, 8-D, 29-D, & 80-D.  
Ref: 8WM-DW

Dear Mr. Dodson:

This is in response to your certified letter dated with Attachments I, II, and III, all pertaining to the referenced applications, which we received on March 5, 1985. We believe the attached adequately answer questions or make corrections as such were listed on your attachments.

Murphy Oil USA, Inc. is very much aware of the seriousness of the permit applications and have worked diligently to make the applications complete. We have operated in the East Poplar Field for more than 30 years and hopefully will be operating there for many years to come. We plan to do whatever is required to comply with the regulations of the Environmental Protection Agency, as we have with all of the Federal and State Agency, as we have with all of the Federal agencies which we have worked with over the years.

The help and cooperation of your staff is very much appreciated in this permitting process. Please contact the undersigned or Mr. Sidney W. Campbell at 501-862-6411 if you have any further questions.

Yours very truly,

Alvin W. Simpson  
Manager of Operations

AWS/cs  
Attachments  
cc: Ray Reede  
Poplar, MT





ANSWERS TO ATTACHMENT I  
COMMON DEFICIENCIES

- 1) Attached is a list of names and addresses with U.S. Postal Service Certified Numbers for each addressee along with a copy of the notice sent to each owner or tenant within one-half mile of the proposed permitted well.
- 2) A copy of the most recent topographical map for each well is attached and the subject well for each is highlighted.
- 3) The corrosion inhibitor used in the East Poplar Unit disposal wells is a Nalco 3900 fluid with Nalco 4300 scale inhibitor and Nalco 3410 for corrosion inhibition.
- 4) There are no cement bond logs available on these wells. Good circulation to the surface was attained during cementing on each completion or recompletion which we are currently using; therefore, no cement bond logs were run. Tracer survey's have been run on the present injection zones and a copy of each survey is attached.
- 5) There are no other EPA permits on the East Poplar Unit.
- 6) The estimated plugging and abandonment costs have been revised and a new Form 7520-14 for each well is submitted with this letter. Changes have been made to reflect the required 50 foot minimum plug length. All of the plugging costs are estimated to be the same and itemized as follows;

Rig Services	\$7,500
Cementing Services	\$6,500
Wireline Services	\$6,000
Cleanup	\$3,000
Miscellaneous Expenses	<u>\$2,000</u>
Total	\$25,000

- 7) A bond is being provided.  
This is in the form that was discussed and agreed to by Mr. Melvin O. Colvin and Mr. F. T. Rieby over the telephone.

ANSWERS TO ATTACHMENT III  
DEFICIENCIES FOR EPU WELLS 29-D, 59-D, and 80-D

1) EPU 29-D

The initial completion data and workover histories for the plug back work and completion into the Judith River is attached.

Plug Back Date:	4/27/81
Casing Removed:	1987'
Cement Plug:	Pumped 15 sacks Class C Cement 5000'-4850'
Bridge Plug:	Go International Elite Plug at 4560'
Cement Plug:	Pumped 40 sacks Class C Cement 1040'-940'
	Logged T. D. at 944' on 3/10/81

Saltwater Disposal Station No. 6 is located at EPU 29-D.

2) EPU 59-D

Request for Permit on EPU 59-D is withdrawn. The well is not currently equipped for injection and there are no plans to use it as a disposal well in the near future.

3) EPU 80-D

Location on EPA Form 7520-10 has been changed and a new form is attached.

A completion and workover history is attached.

The Judith River does not meet the criteria for a USDW. The water analysis supplied in the previous filing showed the water to be greater than 10,000 ppm TDS. Also, water analysis included in this response indicates the Judith River water to be greater than 10,000 ppm TDS. Also, the Judith River Formation was gas productive until it watered out.

Warren Corne's water well is located in the SW $\frac{1}{4}$  of the SW $\frac{1}{4}$  of the SW $\frac{1}{4}$  of Section 13, T28N, R51E.

Saltwater Disposal Station No. 3 is located at EPU 80-D.


 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 WASHINGTON, DC 20460

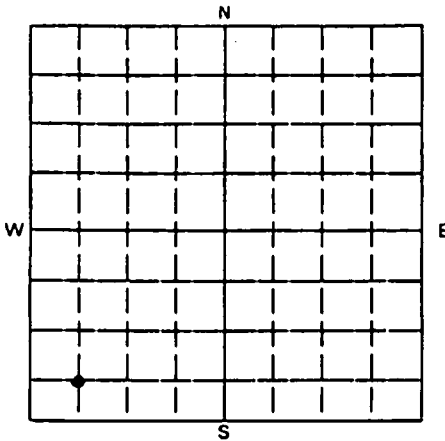
**PLUGGING AND ABANDONMENT PLAN**
**NAME AND ADDRESS OF FACILITY**

 Murphy Oil USA, Inc.  
 Poplar, Montana

EPU 29-D

**NAME AND ADDRESS OF OWNER/OPERATOR**

 Murphy Oil USA, Inc.  
 200 Peach St., El Dorado, AR 71730

**LOCATE WELL AND OUTLINE UNIT ON  
SECTION PLAT — 640 ACRES**

**STATE**

MT

**COUNTY**

Roosevelt

**PERMIT NUMBER**
**SURFACE LOCATION DESCRIPTION**

1/4 OF SW 1/4 OF SW 1/4 SECTION 28 TOWNSHIP 29N RANGE 51E

**LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT**

 Surface Location 660 ft. from (N/S) S Line of quarter section

 and 660 ft. from (E/W) W Line of quarter section

**TYPE OF AUTHORIZATION**

- ☒ Individual Permit  
☐ Area Permit  
☐ Rule

 Number of Wells 1
**WELL ACTIVITY**

- ☐ CLASS I  
☒ CLASS II  
     ☒ Brine Disposal  
     ☐ Enhanced Recovery  
     ☐ Hydrocarbon Storage  
☐ CLASS III

 Lease Name EPU

 Well Number 29-D
**CASING AND TUBING RECORD AFTER PLUGGING**

SIZE	WT(LB./FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE
13 3/8	48		156.45	17 1/2
9 5/8	36		996.44	12 1/2
5 1/2	15.5		3888	8 3/4

**METHOD OF EMPLACEMENT OF CEMENT PLUGS**

- ☒ The Balance Method  
☐ The Dump Bailer Method  
☐ The Two-Plug Method  
☐ Other

**CEMENTING TO PLUG AND ABANDON DATA:**

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed (inches)	9 5/8	9 5/8					
Depth to Bottom of Tubing or Drill Pipe (ft.)	803'	80'					
Sacks of Cement To Be Used (each plug)	25	25					
Slurry Volume To Be Pumped (cu. ft.)	28.75'	28.75'					
Calculated Top of Plug (ft.)	737'	14'					
Measured Top of Plug (if tagged ft.)							
Slurry Wt. (Lb./Gal.)							
Type Cement or Other Material (Class III)	G	G					

**LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (If any)**

From	To	From	To
853'	887'		

**Estimated Cost to Plug Wells**

\$25,000.00

**CERTIFICATION**

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)

Alvin W. Simpson, Manager of Operations

SIGNATURE

DATE SIGNED

March 14, 1985



200 PEACH STREET  
EL DORADO, ARKANSAS 71730

March 8, 1985

Address List Attached

Dear Owner or Tenant:

As required by 40 CFR Section 147.1355 you are hereby notified that Murphy Oil USA, Inc., 200 Peach Street, El Dorado, Arkansas 71730 has applied for an EPA Form 4 Permit and plans to inject produced formation water which is associated with oil producing operations. The following describes the zones and location for which a permit has been applied for.

Well Name: East Poplar Unit 29-D  
Well Location: 660' FSL and 660' FWL, SW $\frac{1}{4}$ , Section 28, T29N-R51E  
Injection Zone: (a) Name: Judith River  
(b) Depth: 853' to 887'  
Injection Pressure: (Maximum) 650 psig  
Injection Volume: (Daily Rate) 2325 Barrels  
Injection Fluid: Mississippian (Madison) Water

Mr. William Engle of the EPA Montana Operations Office in Billings may be contacted if you have any questions concerning the submitted permit application. You will be given the opportunity to comment following an announcement by the EPA after they have prepared a draft permit.

Yours very truly,

  
Alvin W. Simpson  
Manager of Operations

AWS/kw

Attachment

VIA: Certified Mail



SURFACE OWNERS AND/OR SURFACE LESSEES  
ROOSEVELT COUNTY, MONTANA  
March 7, 1985

#29-D

Township 29 North, Range 51 East

<u>Owners and Lessees</u>	<u>Certified Mail Number</u>
Robert H. Kirn Box 884 Poplar, MT 59255	P 078 582 188
DeWane Mervin Brown 622 Ellen Lynn Redwood Valley, CA 95470	P 078 582 189
Zimmerman, Inc., A Montana Corp. Box 277 Poplar, MT 59255	P 078 582 190
Manuel Running Bear Box 571 Poplar, MT 59255	P 078 582 191
Walter Running Bear Main P. O. Box 12375 Seattle, WA 98111	P 078 582 192
Llewellyn Running Bear 825 101st Ave. S.E. Bellevue, WA 98004	P 078 582 193
Lucy Suzanne Eastridge 5 Village Dr. Oxford Village West Grove, PA 19390	P 078 582 194
Delbert Lee 2118 J. Street Bellingham, WA 98225	P 078 582 195
Ben Running Bear, MINOR Box 637 Poplar, MT 59255	P 078 582 196
Dale Running Bear Box 976 Poplar, MT 59255	P 078 582 197

#29-D  
Page 2

Owners and Lessees

Certified Mail Number

Mervin Garfield, MINOR  
Box 637  
Poplar, MT 59255

P 078 582 198

Mercedes Moltovian, MINOR  
Box 637  
Poplar, MT 59255

P 078 582 199

Clarence Little Bull  
4512 North Sheridan  
Chicago, IL 60640

P 078 582 200

Jimmy J. Melbourne, Jr.  
1706 E. Riverside  
Spokane, WA 99202

P 078 582 201

Beula Grandbois  
Box 153  
Poplar, MT 59255

P 078 582 202

Clifford Melbourne  
17033 S.E. Taylor  
Portland, OR 97233

P 078 582 203

Nurna Azure  
Box 663  
Wolf Point, MT 59201

P 078 582 204

Raymond Brien  
Box 715  
Tekoe, WA 99033

P 078 582 205

Alleigh Melbourne  
Box 663  
Wolf Point, MT 59201

P 078 582 206

Emerson Melbourne  
Box 663  
Wolf Point, MT 59201

P 078 582 207

Rynette Melbourne  
Box 663  
Wolf Point, MT 59201

P 078 582 208



Owners and Lessees

Certified Mail Number

Alfred Melbourne  
2531 Howe Ave.  
Sacramento, CA 95821

P 078 582 209

Dana Melbourne  
6236 Mariposa Ave.  
Citrus Heights, CA 95610

P 078 582 210

Albert Brien  
C/O Turtle Mountain Agency  
Belcourt, ND 58316

P 078 582 211

Dan O'Connor (Lessee)  
Box 55  
Poplar, MT 59255

P 078 582 212

Fort Peck Tribes  
Assiniboine/Sioux  
Box 1027  
Poplar, MT 59255

P 078 582 213

Lillian Hertz  
Box 543  
Poplar, MT 59255

P 078 582 214

Leonard Smith  
Box 2822  
Missoula, MT 59801

P 078 582 215

Pearl McDonald  
Box 5033  
Wolf Point, MT 59201

P 078 582 216

Frank Smith  
723 So. Columbia Ave.  
Los Angeles, CA 90017

P 078 582 217

Rosemary Lamb  
Box 514  
Nashua, MT 59248

P 078 582 218

Robert Smith  
Box 1021  
Wolf Point, MT 59201

P 078 582 219

#29-D  
Page 4

Owners and Lessees.

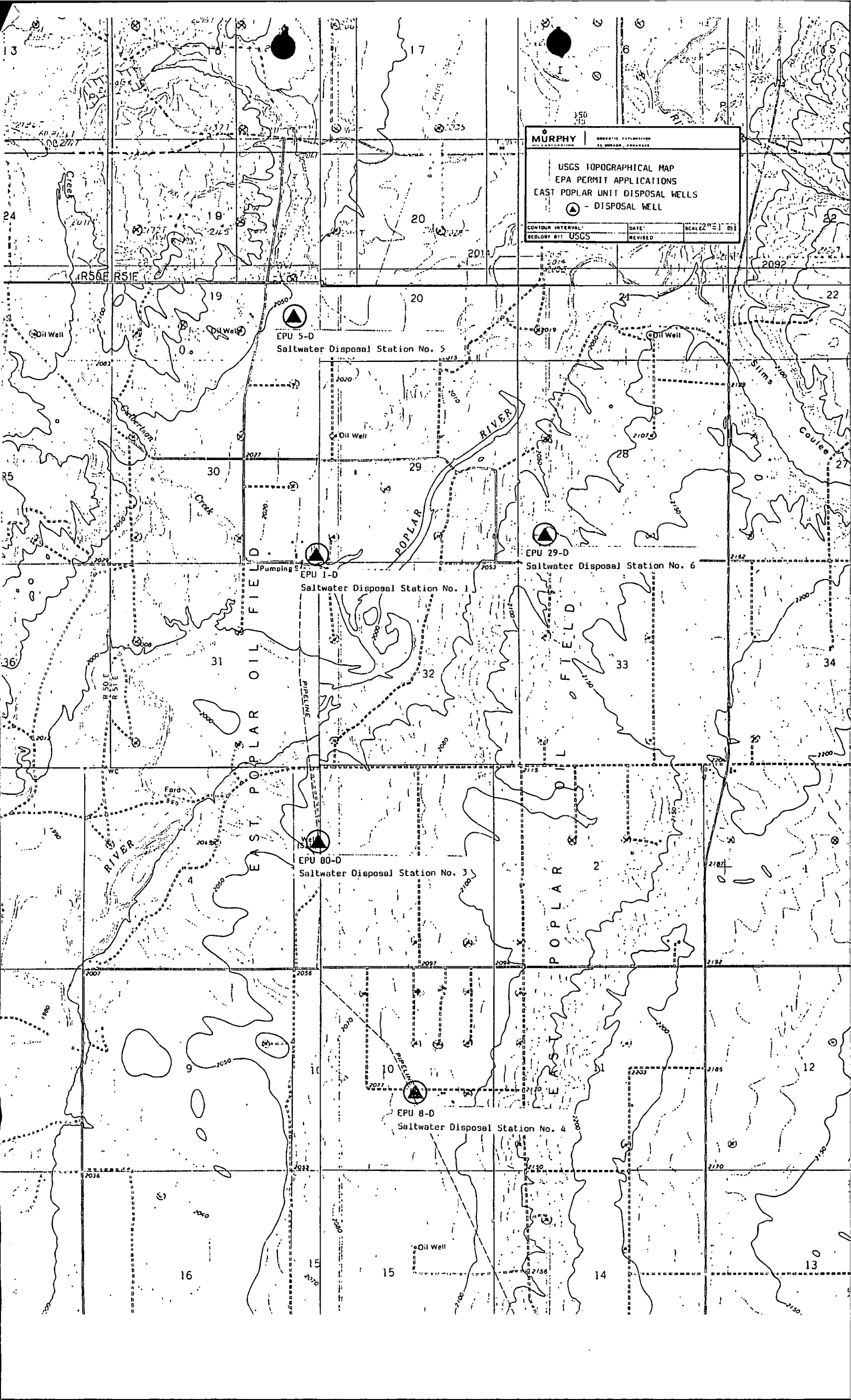
Janice Collins  
Box 1015  
Wolf Point, MT 59201

Michael Smith  
1548 Ogden, Apt. 206  
Denver, CO 80218

Certified Mail Number

P 078 582 220

P 078 582 221



**MURPHY** SURVEILLANCE  
USGS TOPOGRAPHICAL MAP  
EPA PERMIT APPLICATIONS  
EAST POPLAR UNIT DISPOSAL WELLS  
▲ - DISPOSAL WELL

CONTOUR INTERVAL	DATE	SCALE 2"=1 mi
GEOLGY BY: USGS	REVISED	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

BUREAU OF LAND MANAGEMENT

RECEIVED

1. oil ☐ well gas ☐ well other ☒ Salt Water Disposal
2. NAME OF OPERATOR Murphy Oil Corporation MAY 27 1983
3. ADDRESS OF OPERATOR BILLINGS, MONTANA  
P.O. Box 547, Poplar, Montana 59255
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE 660' from S/L and 660' from W/L  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:
16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

- REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:
- |                      |                          |                          |
|----------------------|--------------------------|--------------------------|
| TEST WATER SHUT-OFF  | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT       | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE     | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL          | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE    | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES         | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON*             | <input type="checkbox"/> | <input type="checkbox"/> |
- (other) Salt Water Disposal

5. LEASE  
-T-37-IND-12979- Patented
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Fort Peck
7. UNIT AGREEMENT NAME  
East Poplar Unit
8. FARM OR LEASE NAME  
East Poplar Unit
9. WELL NO.  
No.-6-D 29
10. FIELD OR WILDCAT NAME  
East Poplar Unit
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
C SW SW Section 28, T29N, R51E.
12. COUNTY OR PARISH  
Roosevelt
13. STATE  
Montana
14. API NO.  
60007
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
2103' G.L.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

RECEIVED

MAY 27 1983

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Packer set at 766.44 and the perforations at 850'-890'.

853' to 887'

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Raymond K. Keadle TITLE Dist. Superintendent DATE March 11, 1983

(This space for Federal or State office use)

APPROVED BY [Signature] TITLE Superintendent DATE June 1, 1983  
CONDITIONS OF APPROVAL IF ANY: \_\_\_\_\_

\*See Instructions on Reverse Side

APPROVAL IF WELL NOT STOPPED OR EXTENSION REQUESTED:  
OVER

STATE \_\_\_\_\_ COUNTY \_\_\_\_\_ WELL \_\_\_\_\_

- 2-13-81 Mix 100' cement plug, 15 sacks, with bottom of plug at 2035'. Pulled out of hole with tubing. Start pulling casing, pull till bottom of casing is at 1040'. Mix 100' plug, 40 sacks cement, pump plug down so bottom of plug is at 1040'. Lay down rest of casing, 46 good joints. Lay down tubing out of derrick. Shut down for darkness.
- 2-14-81 Rig down and move off casing pullers. Discontinue work until warmer weather.
- 3-10-81 Rig up and run Gamma Ray log with CR-CCl from 841' to 650'. Perforate with 3-1/2 glass strip at the following depth - 853' to 887', 4 shots per foot, 127 shots. Logged T.D. 944'.
- 4-27-81 Rig up and run Baker Model AD-1 Packer and 24 joints, 743.10' of 3", 8rd., EUE Fiberglass Tubing. Also ran 1 joint of 2-7/8", J-55 coated tubing. Pumped 40 barrels salt water with 5 gallons 3900 Uni-Treat Packer Fluid down casing.
- Layed 957.31', 31 joints of 3" fiberglass from B Battery to well. Pressure tested line to 600#, Held OK.

EAST POPLAR UNIT NO. 29-D

COMPLETION DATA

8-12-53 Spudded and drilled to 178'. Set 162.45' of 13-3/8" casing at 177.75' with 275 sacks of cement.

8-13 to 8-17-53 Drilled to 1010'. Ran Schlumberger Electrical Survey. Set 989.44' of 9-5/8" casing at 1002.44' with 400 sacks cement. Bumped plug with 1100#, Held OK.

Well was temporarily abandoned June 21, 1967, Uneconomical.

2-5-81 Move in and rig up casing pullers.

2-6-81 Pick up 156 joints 2-3/8" tubing, 4850'. Rig up HOWCO and pumped 15 sack Class C Cement plug. Set plug from 5000' to 4850'. Stood 48 stands in derrick and layed down rest of tubing.

2-7-81 Well flowing out 5-1/2" casing and surface casing. Shut down waiting on orders.

2-8-81 Shut down - Sunday

2-9-81 Well still flowing out 5-1/2" casing. Run casing pullers wireline in hole with 2-7/8" tubing sub - got to 4573'. Pulled out of hole. Run in hole with gauge ring - got to 4573'. Pulled out of hole. Rig up wireline truck - Set Go International Elite plug at 4560'. Rig down Go International. Got welder to weld on 5-1/2" lift nipple.

Chlorides on water 74,000 PPM.

2-10-81 Very cold - took most of day to start rig. Got welder out to get studs out of packing. Got jacks set up and ready to pull casing. Shut down.

2-11-81 To cold to work.

2-12-81 Found free point on casing. Tried to shoot off at 2193' and 2047'. Shot off at 1987'. Layed down landing joint. Run in hole to 2035' with 2-3/8" tubing. Shut down waiting on cement.



EAST POPLAR UNIT WELL #29

Location: C SW SW Section 28-T29N-R51E, Roosevelt County, Montana  
Elevation: 2115' KB  
Spudded: August 12, 1953  
Completed: September 13, 1953  
Total Depth: 5876' Schlumberger = 5872' Driller

HISTORY

Aug. 12: Spudded and drilled to 178'. Set 162.45' 13-3/8" casing at 177.75' with 275 sacks cement.  
Aug. 13-17: Drilled to 1010'. Ran Schlumberger electrical survey. Set 989.44' 9-5/8" casing at 1002.44' with 400 sacks cement. Bumped plug with 1100#, held okay.  
Aug. 18-  
Sept. 2: Drilled to 5506'. Cut and pulled Core #1, 5506-5529', rec. 23'.  
Sept. 3: Drilled to 5570'. Core #2, 5529-5570', rec. 41'. Ran DST #1, 5529-5542.  
Sept. 4: Drilled to 5676'. Cut and pulled Core #3, 5676-5706, rec. 30'.  
Sept. 5-8: Ran DST #2, 5695-5706. Ran DST #3, 5677-5692. Drilled to 5814; cut and pulled Core #4, 5814-5872, rec. 58'. Ran Schlumberger ES and ML. DST #4, 5843-5872.  
Sept. 9: Set 5863' 5 1/2" casing @ 5875' with 300 sacks. Bumped plug with 1000#. Held O.K. Plug down at 5:45 a.m. 9-9-53.  
Sept. 10-12: WOC. Well undergoing completion.  
Sept. 13: Rig released at 8:00 a.m. 9-13-53. PBSD 5871' Testing.



**MEMORANDUM  
OF CALL**

Previous editions usable

TO:

*Angus*

☐ YOU WERE CALLED BY- ☐ YOU WERE VISITED BY-

*Sid Campbell*

OF (Organization)

*Murphy*

☐ PLEASE PHONE ► ☐ FTS ☐ AUTOVON

*501-862-6411*

☐ WILL CALL AGAIN ☐ IS WAITING TO SEE YOU

☐ RETURNED YOUR CALL ☐ WISHES AN APPOINTMENT

MESSAGE

*[Handwritten scribbles]*

RECEIVED BY

DATE

TIME

63-110 NSN 7540-00-634-4018

STANDARD FORM 63 (Rev. 8-81)  
Prescribed by GSA  
FPMR (41 CFR) 101-11.6

☆ GPO : 1982 O - 381-529 (224)

**MEMORANDUM  
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Previous editions usable

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OF (Organization)

*Murphy*

☐ PLEASE PHONE ► ☐ FTS ☐ AUTOVON

*501-862-6411*

☐ WILL CALL AGAIN ☐ IS WAITING TO SEE YOU

☐ RETURNED YOUR CALL ☐ WISHES AN APPOINTMENT

MESSAGE

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Previous editions usable

TO:

☐ YOU WERE CALLED BY- ☐ YOU WERE VISITED BY-

OF (Organization)

☐ PLEASE PHONE ► ☐ FTS ☐ AUTOVON

☐ WILL CALL AGAIN ☐ IS WAITING TO SEE YOU

☐ RETURNED YOUR CALL ☐ WISHES AN APPOINTMENT

MESSAGE

*740-5011*

*[Handwritten scribbles]*

RECEIVED BY

DATE

TIME

63-110 NSN 7540-00-634-4018

STANDARD FORM 63 (Rev. 8-81)  
Prescribed by GSA  
FPMR (41 CFR) 101-11.6

☆ GPO : 1982 O - 381-529 (224)



200 PEACH STREET  
EL DORADO, ARKANSAS 71730

*Angus  
(original to  
Mike L.)*

February 15, 1985

United States Environmental Protection Agency  
Region VIII-Drinking Water Branch  
Water Management Division  
1860 Lincoln Street  
Denver, Colorado 80295-0699

40 CFR Section 144.32  
Authorized Representative

Gentlemen:

As required in 40 CFR Section 144.32 (a) and (b), Mr. Alvin W. Simpson, Manager of Operations is hereby designated as the authorized representative for Murphy Oil USA, Inc. for all Environmental Protection Agency permits.

This authorization is to be effective beginning January 1, 1985 and is to remain in effect until so notified by a duly authorized representative of Murphy Oil USA, Inc.

Yours very truly,

Glenn M. Pedderson  
Vice President, Production  
and Exploration Department

GMF/ac



## YAPUNCICH, SANDERSON &amp; BROWN LABORATORIES

P. O. BOX 593  
59103

BILLINGS, MONTANA

13 N. 32ND ST.

## WATER ANALYSIS REPORT

Lab. No. 12700-5

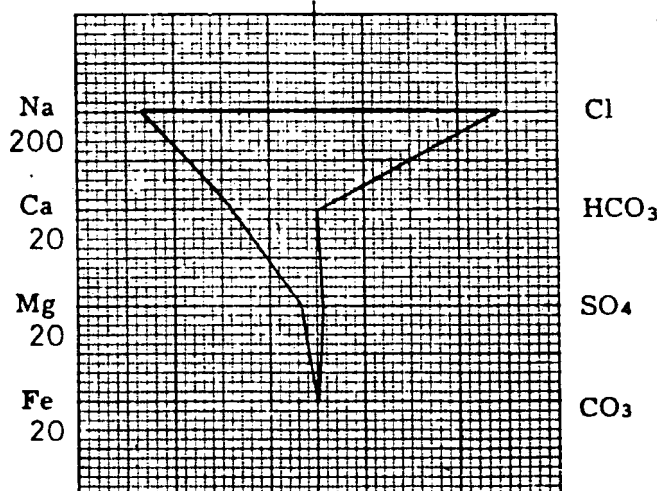
Field North End of East Poplar Unit County Roosevelt State Montana  
 Well No. \* Location \_\_\_\_\_  
 Formation Madison "B" Zone Depths \_\_\_\_\_  
 Operator Murphy Oil Corporation Date Sampled \_\_\_\_\_  
 DST No. \_\_\_\_\_ Sample \_\_\_\_\_ Date Analyzed 3-01-76  
 Other Data \*Wellhead Temperature 140°F Well No. 54  
 \*Wellhead Temperature 135°F Well No. 56  
 \*Wellhead Temperature 145°F Well No. 73  
Clear, colorless water.

Constituents	PPM	MEQ.	MEQ. %	Total Solids in Parts per Million
Sodium	83,699	3,640.67	47.17	By evaporation _____
Calcium	3,607	180.00	2.33	After ignition _____
Magnesium	469	38.53	0.50	Calculated <u>224,813</u>
Sulfate	755	15.70	0.20	pH <u>7.0</u>
Chloride	136,220	3,841.40	49.77	Specific Gravity @ 60°F <u>1.144</u>
Carbonate	0	0.00	0.00	Resistivity @ 68°F
Bicarbonate	128	2.10	0.03	ohms/meter <sup>3</sup> <u>0.050</u>
Chloride as NaCl <u>224,627</u> PPM.				Total Solids From Resistivity as NaCl <u>224,417</u> PPM.

NOTE: Sodium and potassium reported as sodium. MEQ.=milliequivalents per liter. PPM=parts per million (milligrams per liter). 1 PPM equivalent to 0.0001%.

## WATER ANALYSIS PATTERN

Scale MEQ. Per Unit





# YAPUNCICH, SANDERSON & BROWN LABORATORIES

P. O. BOX 593  
59103

BILLINGS, MONTANA

13 N. 32ND ST.

## WATER ANALYSIS REPORT

Lab. No. 12700-4

Field North End of East Poplar Unit County Roosevelt State Montana  
Well No. \* Location \_\_\_\_\_  
Formation Madison "A" Zone Depths \_\_\_\_\_  
Operator Murphy Oil Corporation Date Sampled \_\_\_\_\_  
DST No. \_\_\_\_\_ Sample \_\_\_\_\_ Date Analyzed 3-01-76  
Other Data \*Wellhead Temperature 155°F Well No. 19  
\*Wellhead Temperature 175°F Well No. 38  
\*Wellhead Temperature 100°F Well No. 95  
Clear, colorless water; H<sub>2</sub>S present

Constituents	PPM	MEQ.	MEQ. %	Total Solids in Parts per Million
Sodium	57,198	2,487.96	49.00	By evaporation _____
Calcium	802	40.00	0.79	After ignition _____
Magnesium	132	10.87	0.21	Calculated <u>148,715</u>
Sulfate	2,221	46.19	0.91	pH <u>7.4</u>
Chloride	88,200	2,487.24	48.98	Specific Gravity @ 60°F <u>1.102</u>
Carbonate	0	0.00	0.00	Resistivity @ 68°F
Bicarbonate	329	5.40	0.11	ohms/meter <sup>2</sup> <u>0.065</u>
Chloride as NaCl <u>145,442</u> PPM.				Total Solids From Resistivity as NaCl <u>147,557</u> PPM.

NOTE: Sodium and potassium reported as sodium. MEQ = milliequivalents per liter. PPM = parts per million (milligrams per liter). 1 PPM equivalent to 0.0001%.

### WATER ANALYSIS PATTERN Scale MEQ. Per Unit

